

# JESUS MANCILLA

## Senior Quantitative UX Researcher

Survey Analytics, Behavioral Logs, Experimentation, KPI Development, Mixed Methods, AI-supported Analysis  
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## PROFESSIONAL SUMMARY

Senior **Quantitative UX Researcher** with a strong **applied ML** toolkit to scale insights: modular survey analysis systems, hybrid classifiers for open-ended responses, and AI-indexed research repositories. Proven impact at **Meta**, **Roku**, **Walmart**—compressing analysis cycles (~30 hrs to <8 hrs), enabling org-wide self-serve insights, and tying behavioral telemetry to KPIs to drive product decisions.

## RESEARCH TOOLKIT & DOMAINS

**Quant Methods:** Survey design/analysis, sampling, regressions, ANOVA, T-tests, dashboards

**Behavioral Data:** Telemetry pipelines, event schema, large-scale log analysis, KPI definition

**Mixed Methods:** Triangulation with qual, diary/longitudinal studies, insight synthesis

**ML/AI Assist:** Open-ended classification, clustering, retrieval, LLM-augmented analysis

**Tools:** Python, R, SQL, Tableau, Jupyter, LangChain, FastAPI; Next.js for insight portals

**Collaboration:** Stakeholder alignment, roadmapping, experiment design, exec reporting

## WORK EXPERIENCE

### Argomai

Houston, TX (Remote)

Senior Quantitative UX Researcher

Jan 2025 – Present

- Cut multi-page document classification from **~90 min** → **<5 min** via retrieval + workflow automation; reduced PM reporting from **6 h/wk** → **<1 h**.
- Built reusable analysis components (**embeddings**, prompt templates, orchestration SDK) enabling faster **open-ended response** synthesis across studies.
- Operationalized insights with **RAG** and **knowledge search** patterns to improve findability and evidence traceability in stakeholder decisions.
- Partnered with execs to translate research findings into **metrics, roll-out plans, and decision checklists**; improved cycle time and confidence for go/no-go calls.

### Meta

Houston, TX (Remote)

Senior Quantitative UX Researcher

Jan 2024 – Jan 2025

- Built a **hybrid classifier** for open-ended survey responses (clustering, few-shot, human-in-the-loop, multi-agent reasoning) to triage at scale.
- **Reduced analysis time from ~30 hrs to <8 hrs**; shipped Python analytics toolkit (regressions, ANOVA, T-tests) reused across teams.
- Merged editor behavioral logs with in-app surveys to deliver comprehensive, action-oriented insights that shaped roadmap priorities.
- Ran longitudinal research and bi-weekly tracking for a new ML product with **500M+ MAU**, defining success metrics and monitoring performance.

### Roku

San Jose, CA

Senior User Experience Researcher

Jan 2021 – Nov 2023

- Developed the **Modular Survey Analysis System**: end-to-end ML-assisted report generation (stats + NLP categorization) for survey data.
- Built an **AI-indexed research database**; cut weekly report generation from **~4 hrs to <5 min** with automation and LLM summaries.
- Led quant/qual device research; conducted **behavioral log analysis across 70M+ devices** to inform product decisions and KPI targets.

### Walmart Global Tech

Sunnyvale, CA

Senior User Experience Researcher

Aug 2019 – Nov 2020

- Established KPIs and analytics for Sam's Club mobile app; integrated interaction data with business metrics to guide UX strategy.

### Scrapworks Inc.

Palo Alto, CA

Data Scientist

Sep 2017 – Aug 2019

- Reduced forecasting error by **60%** using deep learning; delivered dashboards over 20 years of sales data (**+30% sales growth**).
- Initiated NLP classification and productionized data ingestion; informed product and operations decisions.

ADDITIONAL EXPERIENCE

<b>Suggestic</b>	Mexico City, Mexico
User Experience Researcher	Dec 2016 – Sep 2017
– Executed data-driven testing and analysis; designed advanced prototypes to validate feature concepts.	
<b>Stanford University</b>	Stanford, CA
User Experience Researcher	May 2016 – Nov 2016
– Conducted research on driver stress using multimodal data; contributed to algorithms with <b>90% accuracy</b> .	
– Co-authored publications on automotive UI and pedestrian interactions.	
<b>ITAM</b>	Mexico City, Mexico
User Experience Researcher	Aug 2014 – May 2016
– Analyzed psychophysiological signals; created custom visualizations to translate findings into design guidance.	

SELECTED RESEARCH/SYSTEMS PROJECTS

<b>Research Librarian (AI Index)</b>	— Improved <b>findability and reuse</b> of insights via embeddings, vector search, and custom ranking.
<b>Modular Survey Analysis System</b>	— ML-assisted pipeline to <b>auto-generate survey reports</b> with stats and NLP categorization.
<b>Customer Support Insights</b>	— RAG and evaluation framework to <b>summarize support knowledge</b> and instrument outcomes for leadership.

EDUCATION

<b>Instituto Tecnológico Autónomo de México (ITAM)</b>	
M.S. in Computer Science (HCI/AI Focus)	2014 – 2016
<b>Universidad de Colima</b>	
B.A. in Psychology	2009 – 2013

SELECTED PUBLICATIONS

Ramos-Rivera, R. E., Santana Mancilla, P. C., Garcia-Mancilla, J., & Gaytán-Lugo, L. S. (2025). Language models in education: Generative AI to optimize teacher performance analysis. <i>InnovAcademica</i> , 1(2), 74–85.	
Ramos-Rivera, R. E., Garcia-Mancilla, J., Cárdenas-Villa, G. E., & Santana-Mancilla, P. C. (2024). Towards Improving Teacher Performance Assessment through Human-Centered AI-Powered Survey Analysis: An Approach Using Large Language Models (LLM). <i>Avances en Interacción Humano-Computadora</i> , 9(1), 261-264.	
Baltodano, Sonia, Jesus Garcia-Mancilla, and Wendy Ju. "Eliciting Driver Stress Using Naturalistic Driving Scenarios on Real Roads." In <i>Proceedings of the 10th International Conference on Automotive User Interfaces and Interactive Vehicular Applications</i> , pp. 298-309. ACM, 2018.	
Currano, Rebecca, So Yeon Park, Lawrence Domingo, Jesus Garcia-Mancilla, Pedro C. Santana-Mancilla, Victor M. Gonzalez, and Wendy Ju. "¡Vamos!: Observations of Pedestrian Interactions with Driverless Cars in Mexico." In <i>Proceedings of the 10th International Conference on Automotive User Interfaces and Interactive Vehicular Applications</i> , pp. 210-220. ACM, 2018.	
J. Garcia-Mancilla, J. E. Ramirez-Marquez, C. Lipizzi, G. T. Vesonder, and V. M. Gonzalez, “Characterizing negative sentiments in at-risk populations via crowd computing: a computational social science approach,” <i>International Journal of Data Science and Analytics</i> , Jun. 2018.	
For full list, see: <a href="http://jgmancilla.com/research-papers">jgmancilla.com/research-papers</a>	